

10/672, 843

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	46	ehrlich\$2 adj reagent same (solid adj support or substrate or solid adj phase or Nunc adj covalink\$2 or glass or polystyrene, or micro\$1array or immobilize or DNA\$1bind\$2 or label or fluoresce\$3 or biotin or enzyme)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 14:14
S1	22	ehrlich\$2 adj reagent same (solid adj support or substrate or solid adj phase or Nunc adj covalink\$2 or glass or polystyrene, or micro\$1array or immobilize or DNA\$1bind\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/13 14:13

10/6/2005

=> FIL REGISTRY  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE ENTRY 0.21  
TOTAL SESSION 0.21

FILE 'REGISTRY' ENTERED AT 10:59:20 ON 13 MAY 2005  
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0  
DICTIONARY FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

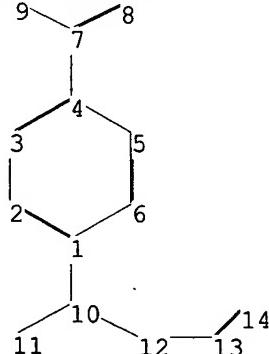
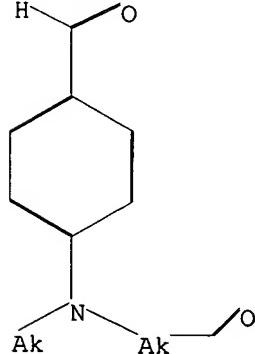
\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10671979.str



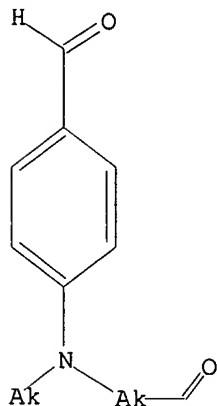
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ring nodes :  
1 2 3 4 5 6  
chain bonds :  
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ring bonds :  
1-2 1-6 2-3 3-4 4-5 5-6  
exact/norm bonds :  
1-10 7-8 10-11 10-12 12-13 13-14

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exact bonds :  
4-7 7-9  
normalized bonds :  
1-2 1-6 2-3 3-4 4-5 5-6  
isolated ring systems :  
containing 1 :
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Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:CLASS 14:CLASS
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L1       STRUCTURE UPLOADED

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=> d 11  
L1 HAS NO ANSWERS  
L1           STR
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Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 41351 TO ITERATE
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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.01
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PROJECTED ANSWERS:      442 TO      1212
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L2       1 SEA SSS SAM L1

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=> s 11 sss full  
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FULL SCREEN SEARCH COMPLETED - 824642 TO ITERATE
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INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.10
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FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
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BATCH \*\*INCOMPLETE\*\*  
PROJECTED ITERATIONS: 824642 TO 824642  
PROJECTED ANSWERS: 41 TO 89

L3 32 SEA SSS FUL L1

=> FIL CAPLUS  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
FULL ESTIMATED COST ENTRY SESSION  
161.76 161.97

FILE 'CAPLUS' ENTERED AT 11:00:15 ON 13 MAY 2005  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 13 May 2005 VOL 142 ISS 21  
FILE LAST UPDATED: 12 May 2005 (20050512/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 21 L3

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273126 SOLIDS  
1161929 SOLID  
(SOLID OR SOLIDS)  
414336 SUPPORT  
116044 SUPPORTS  
492385 SUPPORT  
(SUPPORT OR SUPPORTS)  
9476 SOLID SUPPORT  
(SOLID(W) SUPPORT)  
960151 SOLID  
273126 SOLIDS  
1161929 SOLID  
(SOLID OR SOLIDS)  
1577041 PHASE  
333149 PHASES  
1717935 PHASE  
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102146 SOLID PHASE  
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53 NUNC  
29 COVALINK?  
2 NUNC COVALINK?  
(NUNC(W) COVALINK?)  
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 1001040 SUBSTRATE  
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 668074 GLASS  
 128894 GLASSES  
 696371 GLASS  
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 135851 POLYSTYRENE  
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 136665 POLYSTYRENE  
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     2 MICRO!ARRAY  
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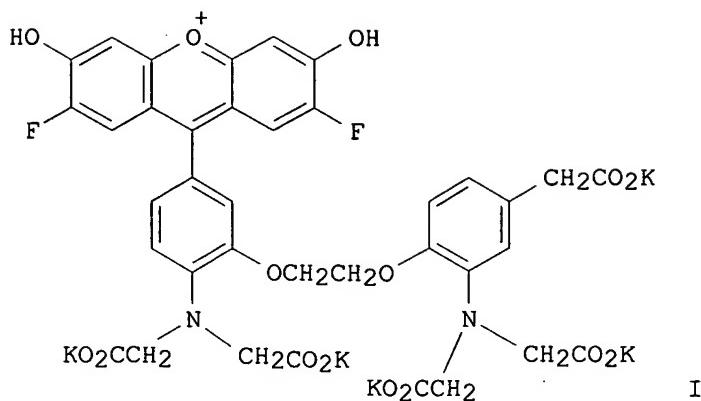
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 ANSWERS '1-6' FROM FILE CAPLUS

=> d 16 ibib abs hitstr tot

**L6** ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2005:58103 CAPLUS  
 DOCUMENT NUMBER: 142:130341  
 TITLE: Metal-binding molecules and metal complexes and methods for detection and isolation of phosphorylated molecules  
 INVENTOR(S): Agnew, Brian; Gee, Kyle R.; Martin, Vladimir V.  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S. Pat. Appl. Publ., 96 pp., Cont.-in-part of U.S. Ser. No. 703,816.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005014197	A1	20050120	US 2004-821522	20040409
US 2004038306	A1	20040226	US 2003-428192	20030502
US 2004171034	A1	20040902	US 2003-703816	20031107
PRIORITY APPLN. INFO.:			US 2002-377733P	P 20020503
			US 2002-393059P	P 20020628
			US 2002-407255P	P 20020830
			US 2003-440252P	P 20030114
			US 2003-428192	A2 20030502
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OTHER SOURCE(S): MARPAT 142:130341  
 GI



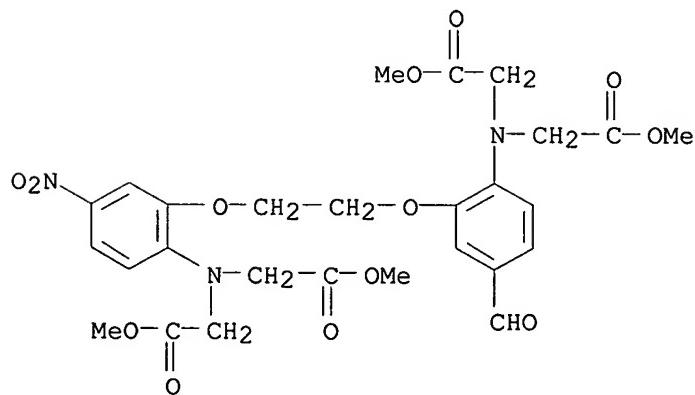
**AB** The present invention relates to phosphate-binding compds. that find use in binding, detecting and isolating phosphorylated target mols. including the subsequent identification of target mols. that interact with phosphorylated target mols. or mols. capable of being phosphorylated. The phosphate-binding compds. comprise a metal-chelating moiety such as BAPTA, DTPA, IDA, and phenanthroline. This metal-chelating moiety is desireably attached to a label, e.g., a dye or a hapten and/or a reactive group. Preferred dyes are benzofurans, quinazolinones, xanthenes, indoles, benzazoles, and boropolyazaindacenones. A binding solution is provided that comprises a phosphate-binding compound, an acid and a metal ion wherein the metal ion simultaneously interacts with an exposed phosphate group on a target mol. and the metal chelating moiety of the phosphate-binding compound forming a bridge between the phosphate-binding compound and a phosphorylated target mol. resulting in a ternary complex. The binding solution of the present invention finds use in binding and detecting immobilized and solubilized phosphorylated target mols., isolation of phosphorylated target mols. from a complex mixture and aiding in proteomic anal. wherein kinase and phosphatase substrates and enzymes can be identified. Thus, a compound comprising dihydroxydifluoroxanthene attached to BAPTA and dextran (I) was prepared I might be used, after addition of GaCl<sub>3</sub> to form complexes, as an affinity matrix to isolate phosphopeptides. The phosphopeptides might then be identified by mass spectrometry.

**IT** 663625-87-4

RL: RCT (Reactant); RACT (Reactant or reagent)  
(metal-binding mols. and metal complexes and methods for detection and isolation of phosphorylated mols.)

**RN** 663625-87-4 CAPLUS

**CN** Glycine, N-[2-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-4-nitrophenyl]-N-(2-methoxy-2-oxoethyl)-, methyl ester (9CI) (CA INDEX NAME)



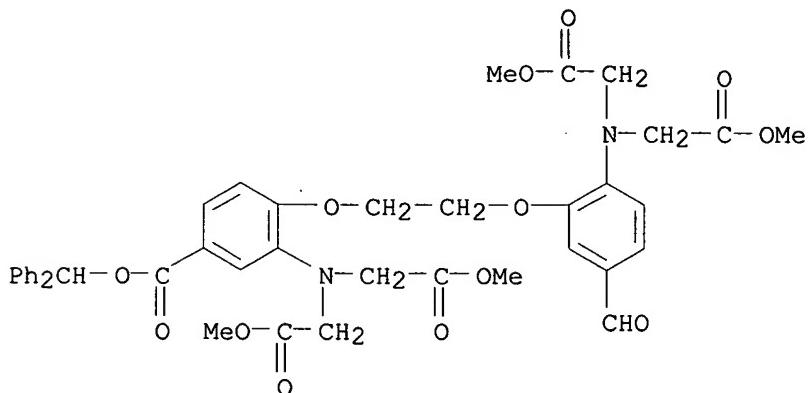
IT 663625-69-2P 663625-80-7P 663625-97-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(metal-binding mols. and metal complexes and methods for detection and isolation of phosphorylated mols.)

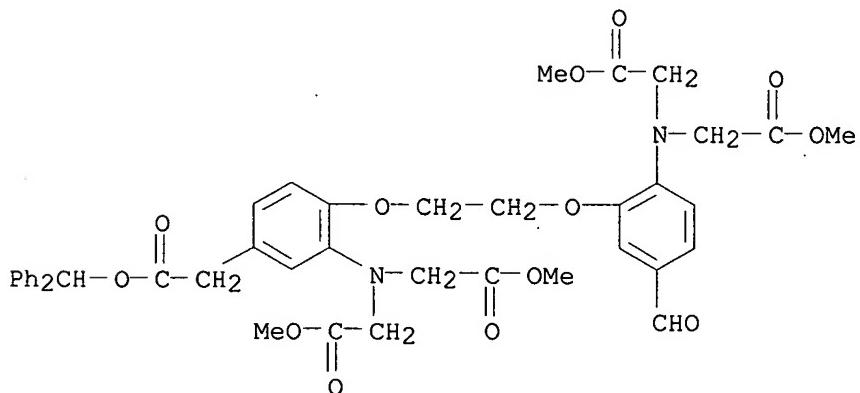
RN 663625-69-2 CAPLUS

CN Benzoic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



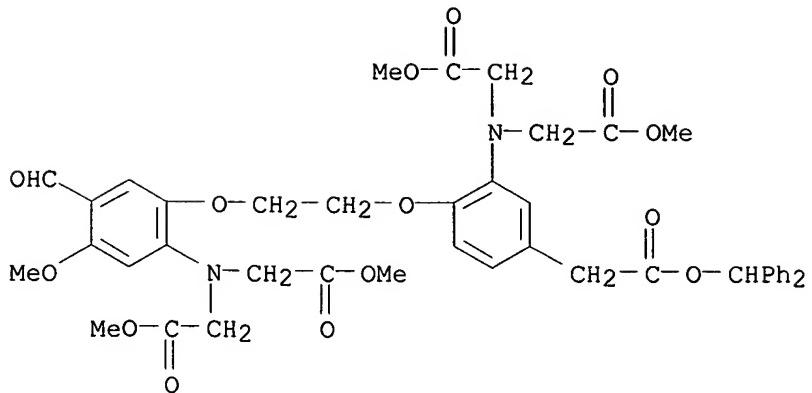
RN 663625-80-7 CAPLUS

CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



RN 663625-97-6 CAPLUS

CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formyl-4-methoxyphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2004:722822 CAPLUS  
 DOCUMENT NUMBER: 141:239312  
 TITLE: Compositions and methods for detection and isolation of phosphorylated molecules  
 INVENTOR(S): Agnew, Brian; Beechem, Joseph; Gee, Kyle; Haugland, Richard; Steinberg, Thomas; Patton, Wayne  
 PATENT ASSIGNEE(S): USA  
 SOURCE: U.S. Pat. Appl. Publ., 89 pp., Cont.-in-part of U.S. Ser. No. 428,192.  
 CODEN: USXXCO  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 3  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004171034	A1	20040902	US 2003-703816	20031107
US 2004038306	A1	20040226	US 2003-428192	20030502
US 2005014197	A1	20050120	US 2004-821522	20040409
PRIORITY APPLN. INFO.:			US 2002-377733P	P 20020503
			US 2002-393059P	P 20020628
			US 2002-407255P	P 20020830
			US 2003-440252P	P 20030114
			US 2003-428192	A2 20030502
			US 2003-703816	A2 20031107

AB The present invention relates to phosphate-binding compds. that find use in binding, detecting and isolating phosphorylated target mols. including the subsequent identification of target mols. that interact with phosphorylated target mols. or mols. capable of being phosphorylated. A binding solution is provide that comprises a phosphate-binding compound, an acid and a metal ion wherein the metal ion simultaneously interacts with an exposed phosphate group on a target mol. and the metal chelating moiety of the phosphate-binding compound forming a bridge between the phosphate-binding compound and a phosphorylated target mol. resulting in a ternary complex. The binding solution of the present invention finds use in binding and detecting immobilized and solubilized phosphorylated target mols., isolation of phosphorylated target mols. from a complex mixture and aiding in proteomic anal. wherein kinase and phosphatase substrates and enzymes can be identified.

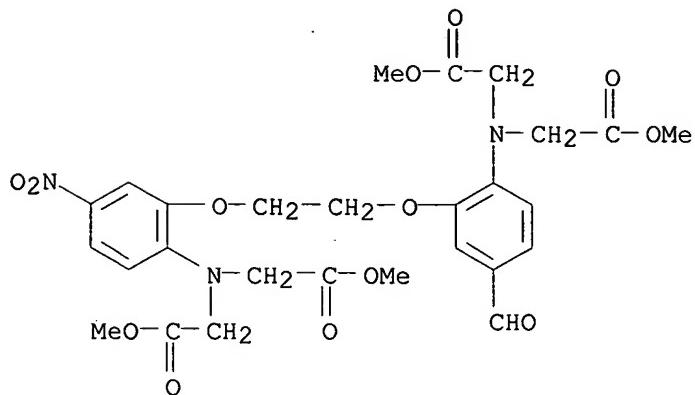
IT 663625-87-4

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (compns. and methods for detection and isolation of phosphorylated mols.)

RN 663625-87-4 CAPLUS

CN Glycine, N-[2-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-

formylphenoxy]ethoxy]-4-nitrophenyl]-N-(2-methoxy-2-oxoethyl)-, methyl ester (9CI) (CA INDEX NAME)



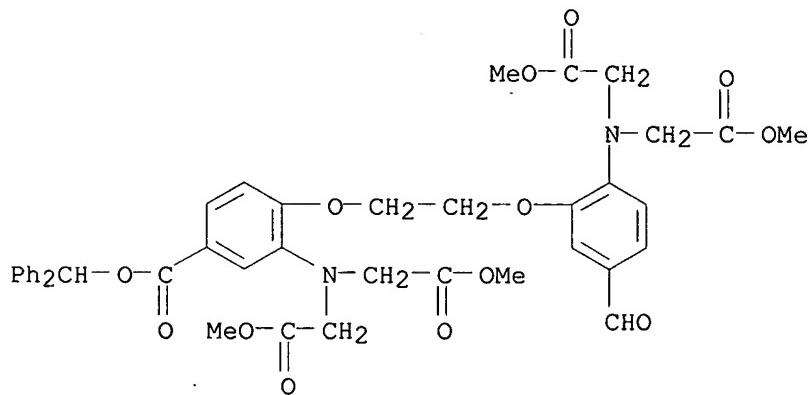
IT 663625-69-2P 663625-80-7P 663625-97-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(compns. and methods for detection and isolation of phosphorylated mols.)

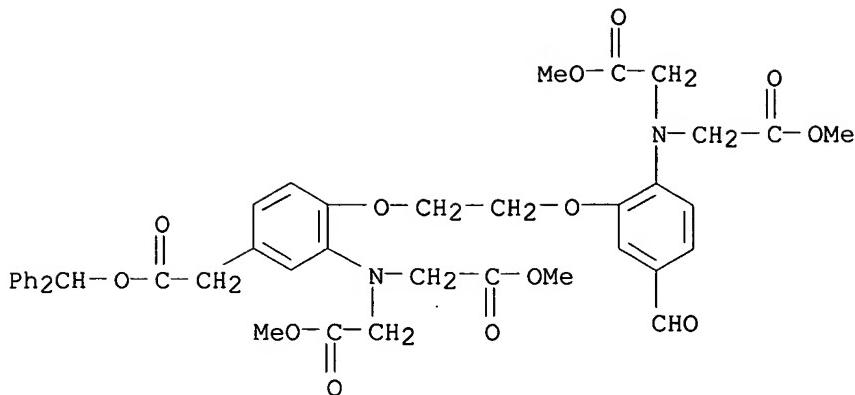
RN 663625-69-2 CAPLUS

CN Benzoic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



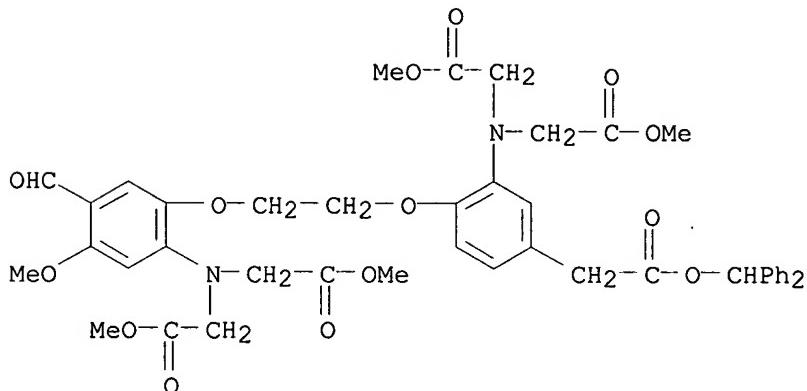
RN 663625-80-7 CAPLUS

CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



RN 663625-97-6 CAPLUS

CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formyl-4-methoxyphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:162337 CAPLUS

DOCUMENT NUMBER: 140:213577

TITLE: Compositions and methods for detection and isolation of phosphorylated molecules

INVENTOR(S): Agnew, Brian; Beechem, Joseph; Gee, Kyle; Haugland, Richard; Liu, Jixiang; Martin, Vladimir; Patton, Wayne; Steinberg, Thomas

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 83 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

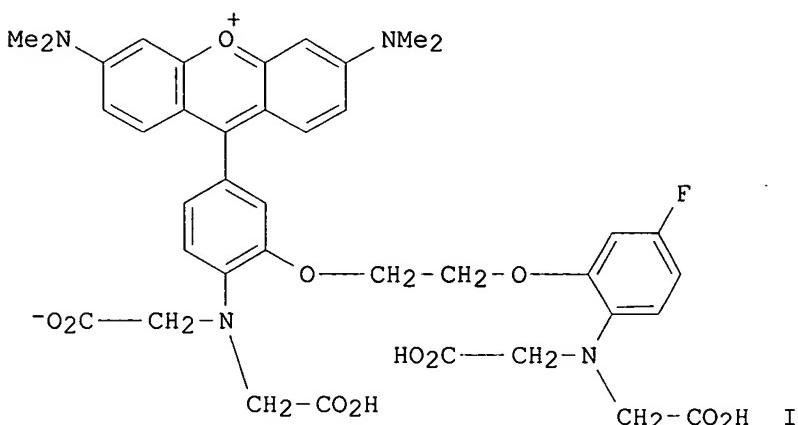
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004038306	A1	20040226	US 2003-428192	20030502
WO 2004042347	A2	20040521	WO 2003-US13765	20030502
WO 2004042347	A3	20050414		

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PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
US 2004171034 A1 20040902	US 2003-703816	20031107	
US 2005014197 A1 20050120	US 2004-821522	20040409	
PRIORITY APPLN. INFO.:	US 2002-377733P	P 20020503	
	US 2002-393059P	P 20020628	
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OTHER SOURCE(S): MARPAT 140:213577

GI



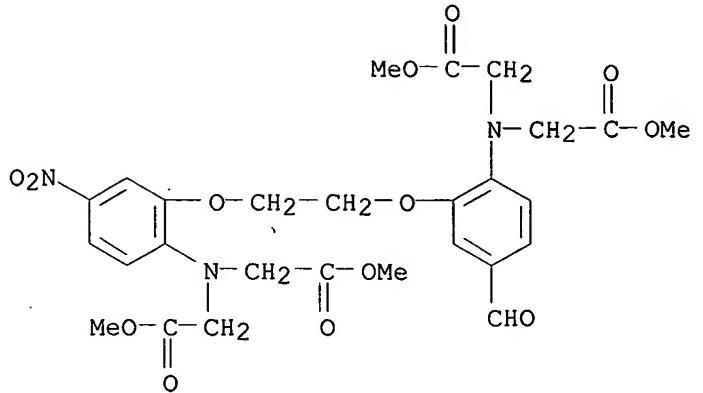
AB The present invention relates to phosphate-binding compds. that find use in binding, detecting and isolating phosphorylated target mols. including the subsequent identification of target mols. that interact with phosphorylated target mols. or mols. capable of being phosphorylated. A binding solution is provided that comprises a phosphate-binding compound, an acid and a metal ion wherein the metal ion simultaneously interacts with an exposed phosphate group on a target mol. and the metal chelating moiety of the phosphate-binding compound forming a bridge between the phosphate-binding compound and a phosphorylated target mol. resulting in a ternary complex. The binding solution of the present invention finds use in binding and detecting immobilized and solubilized phosphorylated target mols., isolation of phosphorylated target mols. from a complex mixture and aiding in proteomic anal. wherein kinase and phosphatase substrates and enzymes can be identified. A human MRC-5 lung fibroblast cell lysate protein mixture was separated by two-dimensional gel electrophoresis. The gel was fixed and then phosphoproteins were stained with a solution containing 50 mM NaOAc, pH 4.0, 250 mM NaCl, 20% volume/volume 1,2-propanediol, 1  $\mu$ M rhodamine-BAPTA chelating compound I, and 1  $\mu$ M gallium chloride.

IT 663625-87-4

RL: RCT (Reactant); RACT (Reactant or reagent)  
(metal ions, acids, and chelating phosphate-binding agents for detection and isolation of phosphorylated mols.)

RN 663625-87-4 CAPLUS

CN Glycine, N-[2-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-4-nitrophenyl]-N-(2-methoxy-2-oxoethyl)-, methyl ester (9CI) (CA INDEX NAME)



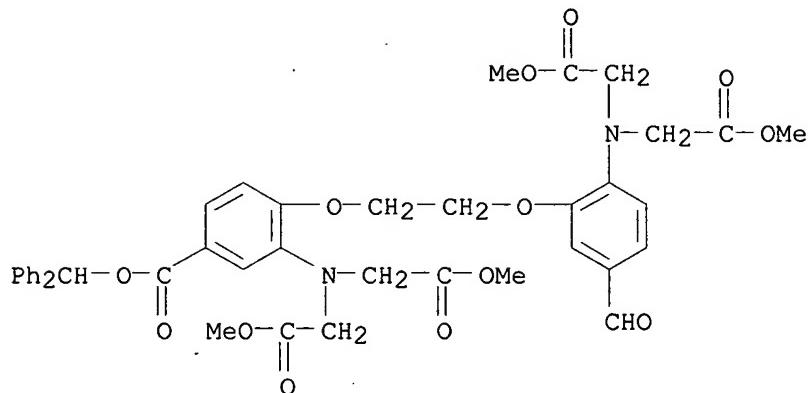
IT 663625-69-2P 663625-80-7P 663625-97-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(metal ions, acids, and chelating phosphate-binding agents for detection and isolation of phosphorylated mols.)

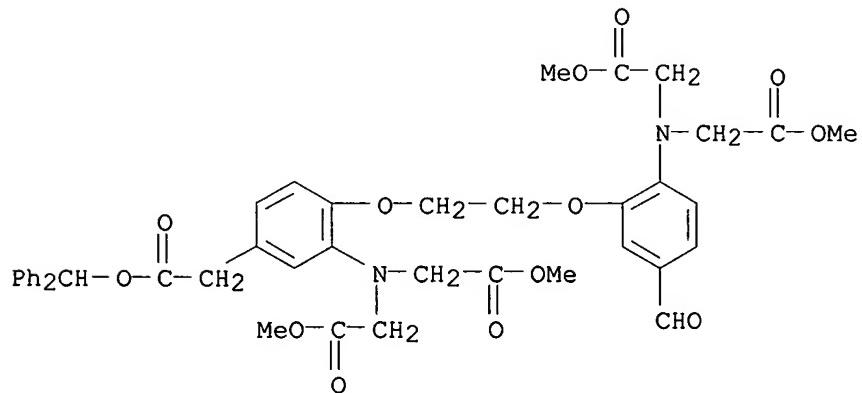
RN 663625-69-2 CAPLUS

CN Benzoic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)

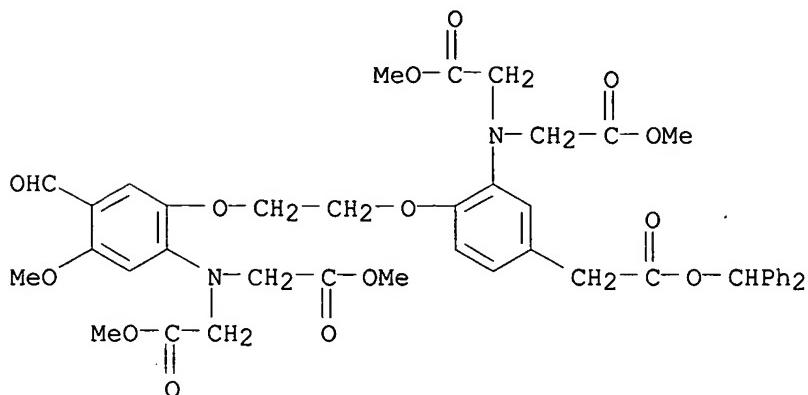


RN 663625-80-7 CAPLUS

CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formylphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)

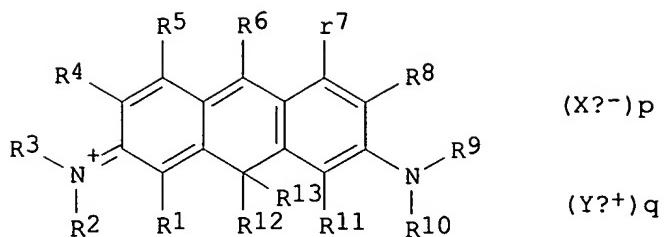


RN 663625-97-6 CAPLUS  
 CN Benzeneacetic acid, 3-[bis(2-methoxy-2-oxoethyl)amino]-4-[2-[2-[bis(2-methoxy-2-oxoethyl)amino]-5-formyl-4-methoxyphenoxy]ethoxy]-, diphenylmethyl ester (9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2003:58374 CAPLUS  
 DOCUMENT NUMBER: 138:129079  
 TITLE: Fast-writable and precision-writable high-capacity optical storage media  
 INVENTOR(S): Lehmann, Urs; Aeschlimann, Peter; Sutter, Peter; Schmidhalter, Beat; Budry, Jean-Luc; Spahni, Heinz  
 PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.  
 SOURCE: PCT Int. Appl., 83 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003007296	A1	20030123	WO 2002-EP7434	20020704
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1412942	A1	20040428	EP 2002-764629	20020704
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2004534677	T2	20041118	JP 2003-512976	20020704
US 2004142137	A1	20040722	US 2004-483130	20040108
US 6849315	B2	20050201		
PRIORITY APPLN. INFO.:			CH 2001-1297	A 20010713
			CH 2001-1516	A 20010817
			WO 2002-EP7434	W 20020704
OTHER SOURCE(S): GI		MARPAT 138:129079		



I

AB The invention relates to an optical recording medium, comprising a substrate and a recording layer, wherein the recording layer comprises a compound of I (R1-13 = H, C1-24 alkyl, C2-24 alkenyl, alkynyl, C3-24 cycloalkyl, alkenyl, C7-24 aralkyl, aryl, C4-12 heteroaryl, etc.; Xm- = inorg., organic, organometallic anion; Yn+ = proton or a metal, ammonium or phosphonium cation; m, n = 1-5; p, q = 0.2-6). Generally the optical recording medium according to the invention addnl. comprises a reflecting layer. The recording media according to the invention exhibit high sensitivity and good playback characteristics, especially at high recording

and playback speeds. The light stability is also excellent.

IT 489437-97-0P

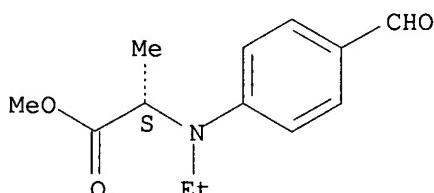
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(fast-writable and precision-writable high-capacity optical storage media)

RN 489437-97-0 CAPLUS

CN L-Alanine, N-ethyl-N-(4-formylphenyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:694609 CAPLUS

DOCUMENT NUMBER: 138:299384

TITLE: Structural characterization of pyrrolic cross-links in collagen using a biotinylated Ehrlich's reagent.  
[Erratum to document cited in CA135:238201]

AUTHOR(S): Brady, Jeffrey D.; Robins, Simon P.

CORPORATE SOURCE: Rowett Research Institute, Aberdeen, AB21 9SB, UK

SOURCE: Journal of Biological Chemistry (2001), 276(35), 33292

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

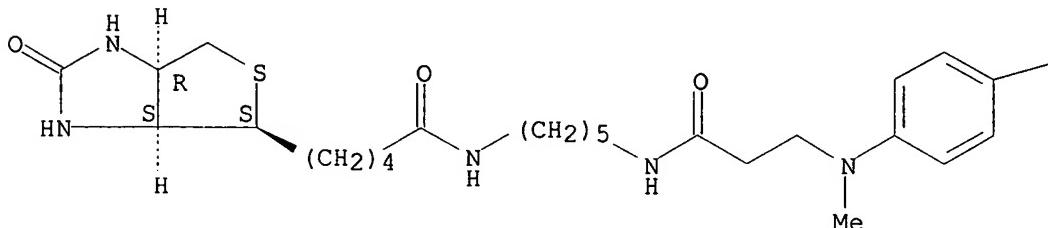
LANGUAGE: English

AB On page 18813, in the right column under "Biotinylation of the Carboxylic Acid Derivative," the first sentence should read: "N-Methyl-N-propionic acid-4-amino benzaldehyde (3 mg) was redissolved in 100 mM MES buffer (3

IT mL), pH 4.5, and biotin pentyamine (30 mg; Pierce) was added.".  
**359766-88-4P**  
 RL: MSC (Miscellaneous); NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
 (structural characterization of pyrrolic cross-links in collagen using biotinylated Ehrlich's reagent (Erratum))  
 RN 359766-88-4 CAPLUS  
 CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[(3-[(4-formylphenyl)methylamino]-1-oxopropyl)amino]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

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L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 2001:429765 CAPLUS  
 DOCUMENT NUMBER: 135:238201  
 TITLE: Structural characterization of pyrrolic cross-links in collagen using a biotinylated Ehrlich's reagent  
 AUTHOR(S): Brady, Jeffrey D.; Robins, Simon P.  
 CORPORATE SOURCE: Rowett Research Institute, Aberdeen, AB21 9SB, UK  
 SOURCE: Journal of Biological Chemistry (2001), 276(22), 18812-18818  
 CODEN: JBCHA3; ISSN: 0021-9258  
 PUBLISHER: American Society for Biochemistry and Molecular Biology  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 135:238201  
 AB The structures of pyrrolic forms of cross-links in collagen have been confirmed by reacting collagen peptides with a biotinylated Ehrlich's reagent. This reagent was synthesized by converting the cyano group of N-methyl-N-cyanoethyl-4-aminobenzaldehyde to a carboxylic acid, followed by conjugation with biotin pentyamine. Derivatization of peptides from bone collagen both stabilized the pyrroles and facilitated selective isolation of the pyrrole-containing peptides using a monomeric avidin column. Reactivity of the biotinylated reagent with collagen peptides was similar to that of the standard Ehrlich reagent, but heat denaturation of the tissue before enzyme digestion resulted in the loss of about 50% of the pyrrole cross-links. Identification of a series of peptides by mass spectrometry confirmed the presence of derivatized pyrrole structures combined with between 1 and 16 amino acid residues. Almost all of the pyrrole-containing peptides appeared to be derived from N-terminal telopeptide sequences, and the nonhydroxylated (lysine-derived) form predominated over pyrrole cross-links derived from helical hydroxylysine.

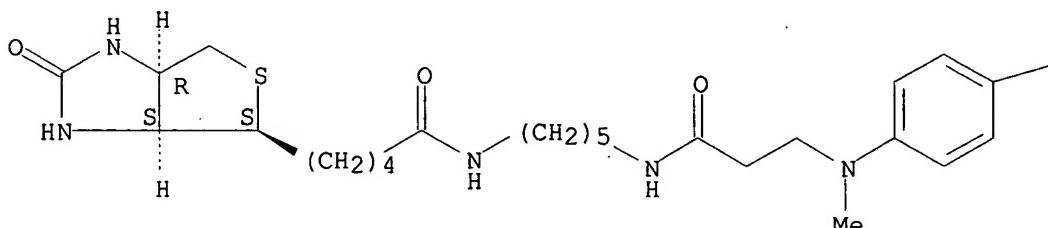
IT 359766-88-4P  
RL: MSC (Miscellaneous); NUU (Other use, unclassified); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
(structural characterization of pyrrolic cross-links in collagen using a biotinylated Ehrlich's reagent)

RN 359766-88-4 CAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, N-[5-[[3-[(4-formylphenyl)methylamino]-1-oxopropyl]amino]pentyl]hexahydro-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—CHO

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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